

DESIGN CONCEPTS

1. Coupling

1.1 Content coupling

Related modules	Description	Improvement
entity.order	In the future, there might be a module which manages to get deliveryInfo object by calling getDeliveryInfo() of Order class and then change the deliveryInfo by calling put() of HashMap class. Consequently, the value of deliveryInfo will be changed while its object Order knows nothing about the modification of its attribute from the external	

1.2 Common coupling

Related modules	Description	Improvement

1.3 Control coupling

Related modules	Description	Improvement

1.4 Stamp coupling

Related modules	Description	Improvement
entity.cart Cart.java	checkMediaInCart(Media media) pass media as parameter but only use id	Pass only id of media
controller PlaceOrderController.java	public int calculateShippingFee(Order order) pass order as parameter but only use amount	Pass only amount of order

1.5 Data coupling

2. Cohesion

2.1 Coincidental cohesion

- 2.2 Logical cohesion
- 2.3 Temporal cohesion
- 2.4 Procedural cohesion

Related modules	Description	Improvement
controller PlaceOrderController.java, entity.order Order.java	PlaceOrderController might not to calculate Shipping fees.	Method calculateShippingFee() should be implement in Order.java and set to shippingFees. PlaceOrderController gets shippingFees from Order class.

- 2.5 Communication cohesion
- 2.6 Functional cohesion